

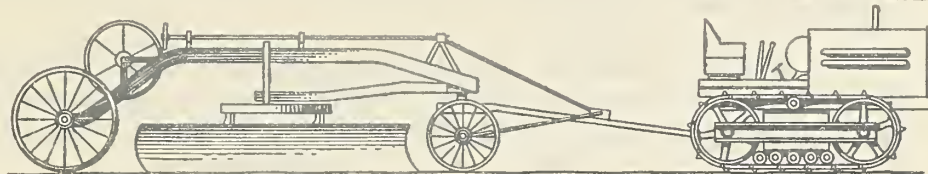
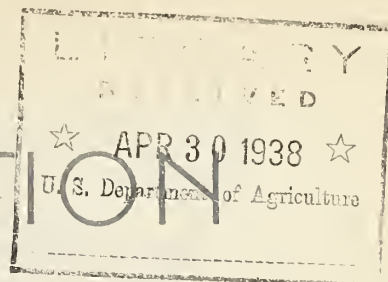
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CONSTRUCTION



HINTS

UNITED STATES DEPARTMENT OF AGRICULTURE, FOREST SERVICE
WASHINGTON, D. C.

Vol. 4

April 23, 1938

No. 8

METHOD FOR CUTTING SAFETY GLASS
H. Kingsbury, Mechanic
Camp Bitely, F-22, Manistee Forest

It is sometimes found that obsolete stocks of safety glass may be put to some use, if cut properly.

To cut this glass, mark off the line you wish to cut, with a glass-cutting tool. Then, turn the glass over and directly opposite, mark the other side. Lay the marked line along the edge of a bench, take a piece of #12 composition copper telephone wire, weight it securely in place along the line marked out, and connect the ends of the wire to a 6-volt battery. The wire heats up, causing the top layer of glass to crack along the line, and if allowed to remain a few minutes longer will heat the middle safety layer until it becomes plastic. The bottom layer of glass may then be broken by a gentle downward pressure with the hand.

Finish by grinding and polishing the edge cut.

(over)

CLETRAC MOLDBOARD DRAFTHOOK

A drafthook to pull debris from the front of pioneer trails has been designed by G. R. Buel of Camp F-187, Avery, Idaho, for use in Region 1.

It can be made by any camp blacksmith, with the following materials; a section of half-inch plate, a $1\frac{1}{2}$ " steel hook, two (2) $1\frac{1}{2}$ " x $\frac{1}{2}$ " bolts, and one (1) 2" x $\frac{3}{4}$ " bolt. The method of installation is shown on the attached drawing.

To prevent breakage of trailbuilder parts, it is recommended that the blade be in the float position when the hook is being used.

CHAIN TIGHTNERS

Two chain tightners have been developed by Richard C. Rector, E.C.W. foreman of Camp-36-W, Region 1.

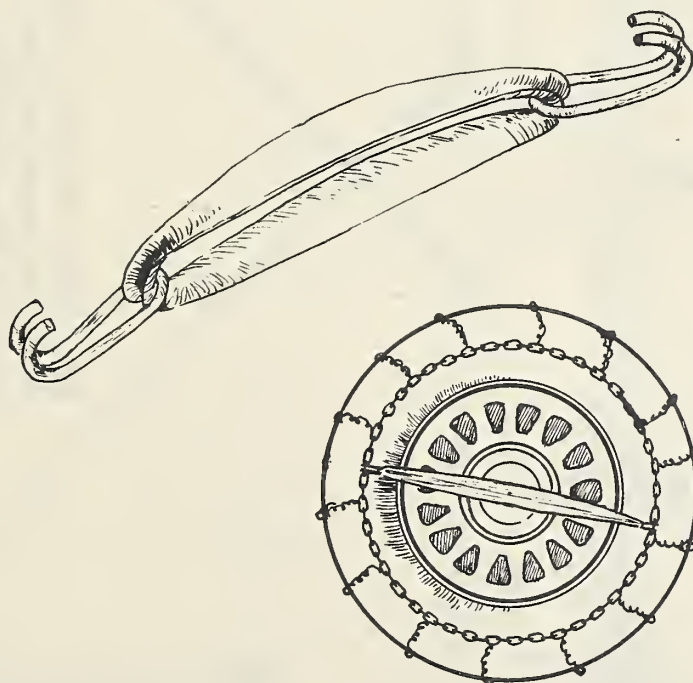
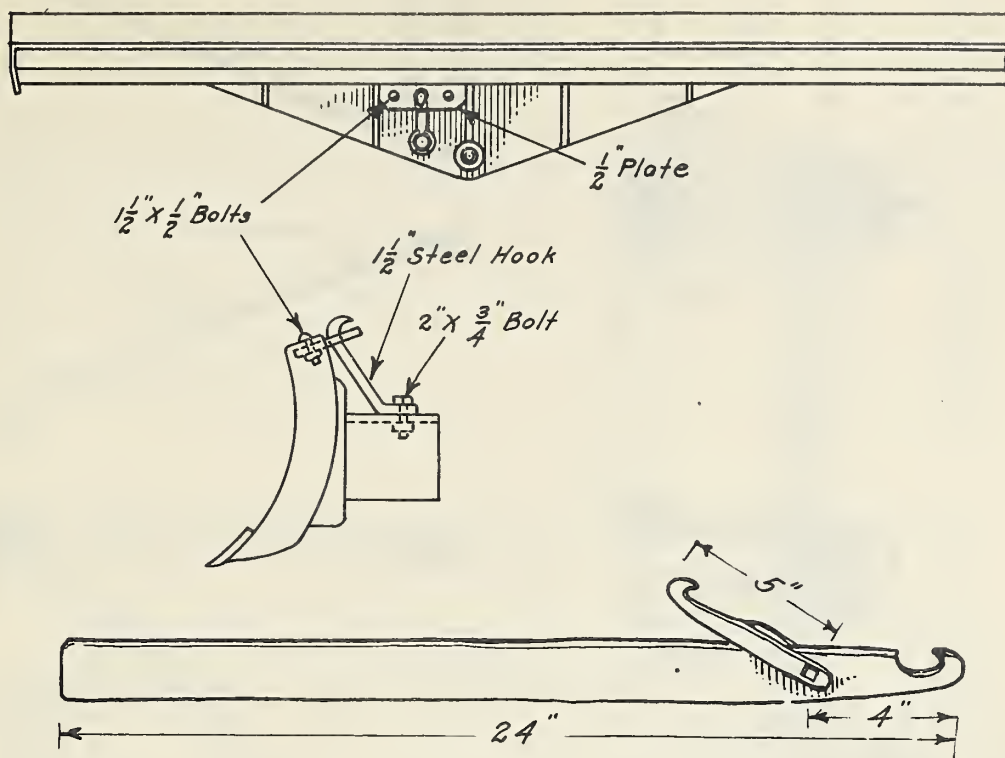
The first, made of old bumper or spring steel, is for use on the center chain of duals. It is said to be of great value in the close quarters between the tires.

The second, for ordinary chains, consists of a cross section of old inner tube, and a varying number of hooks from the ends of discarded, passenger cars, chain cross links. Only two hooks are shown, but as many as five may be used.

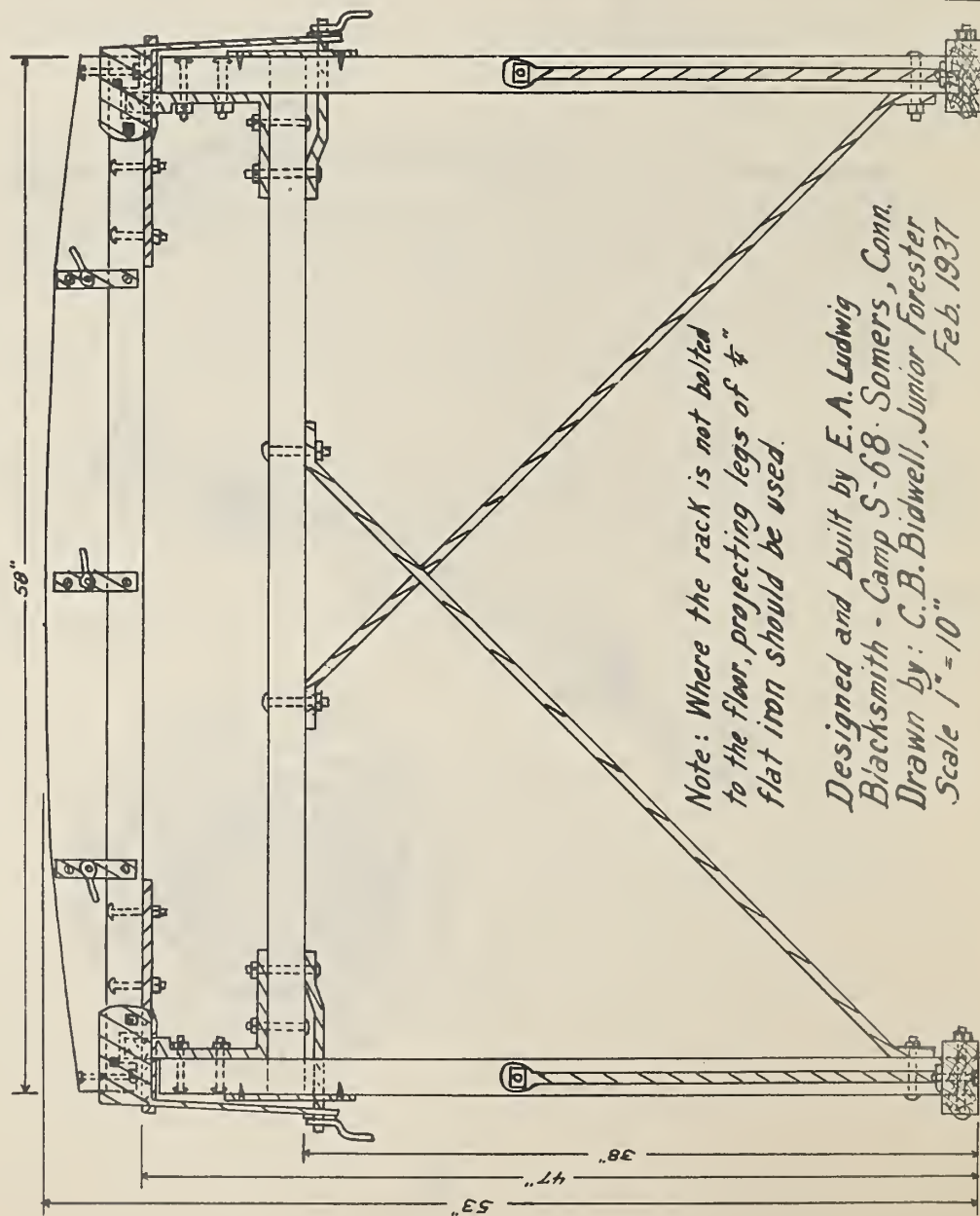
The pull required to engage the hooks should be at least 50 pounds.

SIGNS OF SAFETY

Use Your Head Instead of Your Horn - Drive Carefully!

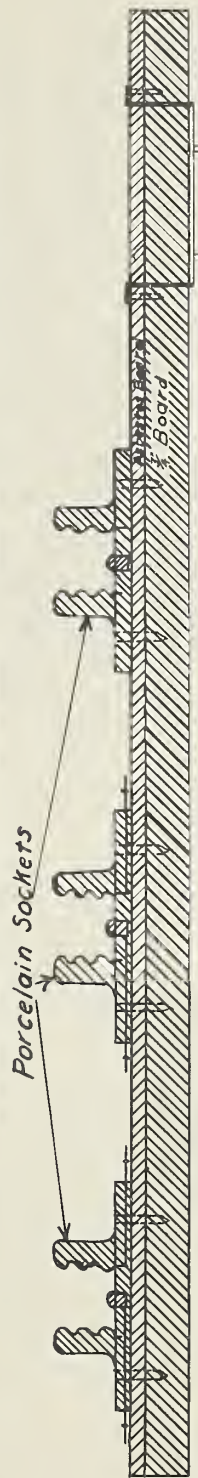
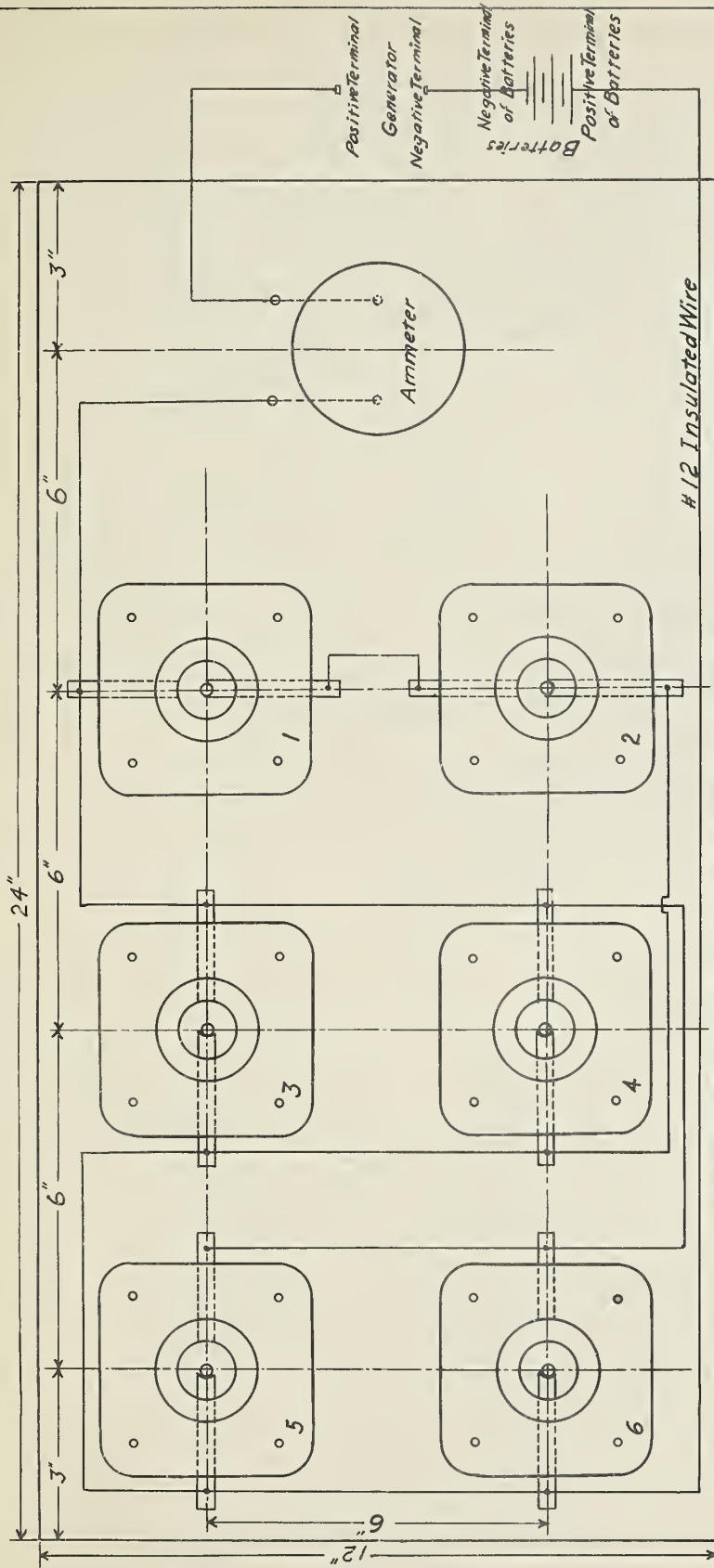


TILTING SAW FILING RACK



Note: Where the rack is not bolted to the floor, projecting legs of 4" flat iron should be used.

Designed and built by E.A. Ludwig
Blacksmith - Camp S-68. Somers, Conn.
Drawn by: C.B. Bidwell, Junior Forester
Scale 1"=10"



Location of Heater Elements for Various Charging Rates

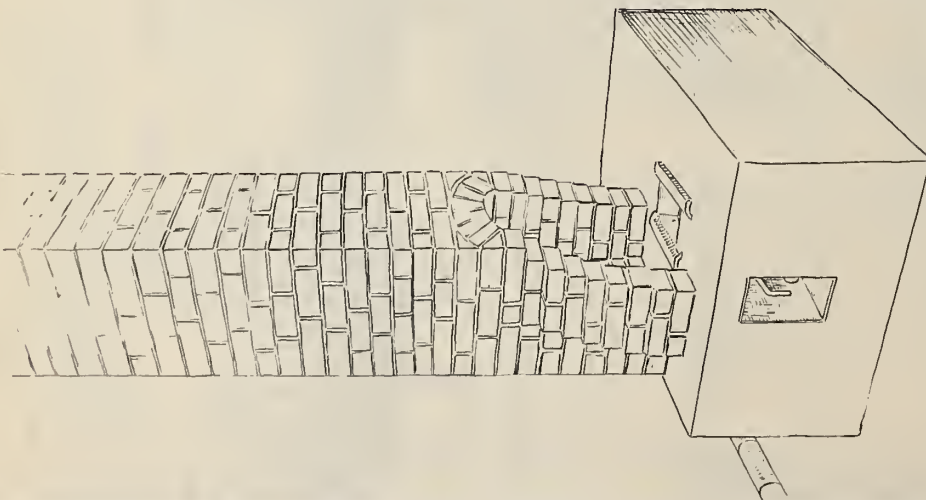
Sockets 1 & 2 Low Rate
 Socket 3 2nd Rate
 Sockets 3 & 4 3rd Rate
 Sockets 3, 4 & 5 4th Rate
 Sockets 3, 4, 5 & 6 High Rate

NOTE: Do not attempt to remove heater elements when Generator is running as it will draw an arc and burn the socket and the element

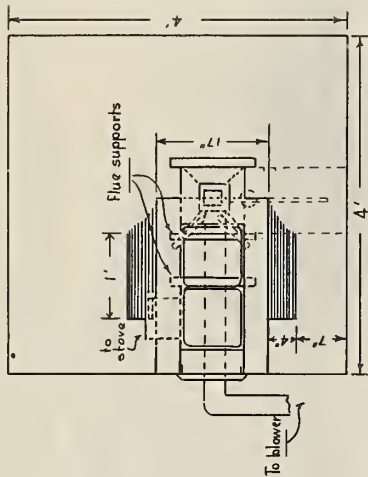
Bill of Materials

- 1 - Sheet of Asbestos 12" X 24" X 1/4"
- 6 - Porcelain Light Bulb Sockets Square base, exposed terminals
- 4 - 600 Watt Reflector type room heater elements
- 1 - Auto Ammeter (Salvage if Possible)
- 2 - Large Type Battery Clips
- 10' - #12 Insulated Wire to connect Units
- 1 - Wooden Board 3/4" X 1' X 2'

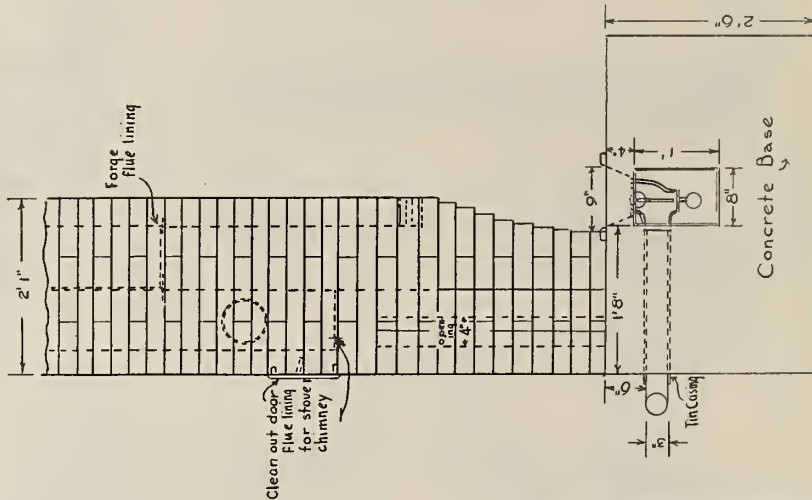
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF FORESTS & WATERS
 HARRISBURG
 BATTERY CHARGING UNIT FOR
 USE WITH 5KW-110 VOLT-DC GENERATOR
 Designed by Arthur L. Allemoss-Jr. Sup. Mechanic
 Drawn by J.A. Broadwell - Checked by



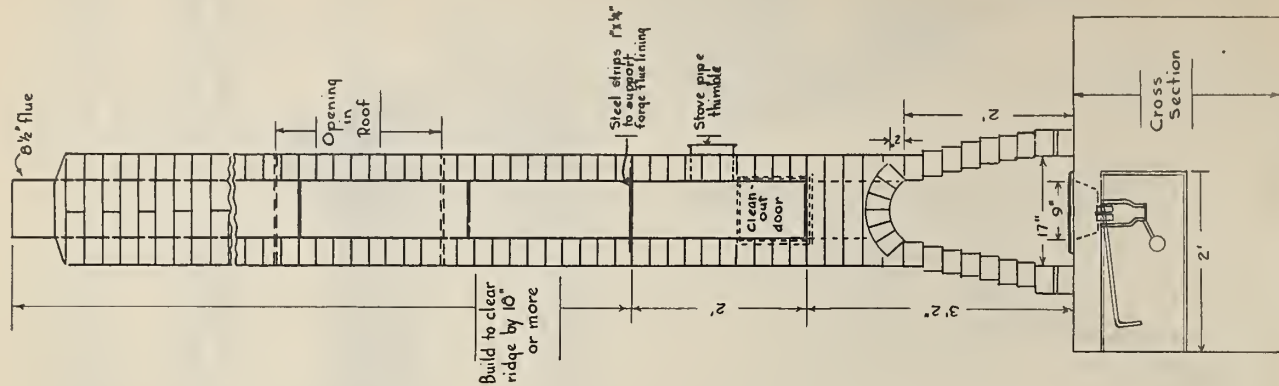
• TOP VIEW •



• SIDE ELEVATION •



• FRONT ELEVATION •



• CROSS SECTION •

• U.S. DEPARTMENT of AGRICULTURE •
 FOREST SERVICE •
 NICOLET NATIONAL FOREST
 CAMP LONG LAKE F-29
 • FORGE AND CHIMNEY •

DESIGNED & BUILT By CH. GRIFFIN
 DRAWN By J. J. AMES
 JANUARY 1937

Approved by
J. J. Ames

SCALE
 FEET
 0 1